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UNION CARBIDE NUCLEAR COMPANY

Division of Union Carbide Corporation

Plant:

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Oak Ridge Gaseous Diffusion

R. V. ULM RWU——UAB——VBC——

Date: July 25, 1958

FPC—DAC—DAL

Subject: Revised Uranium Accounting

Codes

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KP-1459

Reporting codes and isotopic assay class ranges for uranium materials have been revised. The normal assay range balance has been extended from 0.7115 per cent to cover materials between 0.6900 per cent to 0.7199 per cent, inclusive. A revised tabulation of assay classes is shown in table 1. Assay prefix reporting codes are shown in table 2. In this table, it will be noted that the only change is to provide a prefix code break point at 3.5 per cent assay. This has been done to supplement nuclear safety considerations in the use of varying uranium hexafluoride shipping container sizes. The effective date for adopting these revised assay class ranges and prefix codes is July 30, 1958.

The number of material description suffix codes has been greatly reduced. A list of uranium and uranium contaminated materials is shown in table 3, together with the numerical index assigned to each. The effective date for adopting these revised suffix codes is July 30, 1958. Any suggested modifications to the list as shown in table 3 should be forwarded to the writer in sufficient time to permit their inclusion by the effective date.

Because of the extensive changes made by these revisions, the careful cooperation of all concerned is requested in the preparation of reports which involve the revised codes. If needed, additional lists may be obtained from the Uranium Accounting office upon request.

Union Carbide Nuclear Company, Oak Ridge Gaseous
Diffusion Plant, Operating Contractor for the U.S.
Atomic Energy Commission.

Classification changed to: Unc Assistance
(level and category)

JAP: WDM: ag
Attachments (3)

By sutherity of: C(1 - P6 D - F

(classification guide)

Attachments (3)

Description of AID signature (first reviewer)

Date

Of 1934 Its fransmilled category Act

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TABLE I

ASSAY CLASSES

EFFECTIVE: July 30, 1958

Class	Assay Range
A	00.000 and under 00.500
В	00.500 and under 00.690
~ C	00.690 and under 00.720
מ	00.720 and under 01.000
E	01.000 and under 05.000
F	05.000 and under 25.000
G	25.000 and under 75.000
H	75.000 and under 100.000

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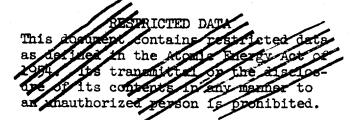
TABLE 2

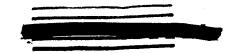
ASSAY RANGES

EFFECTIVE: July 30, 1958

1			00.000			
2 .			00.200	and	under	00.300
3			00.300			
3			00.400			
			00.500			
5 6			00.600	and	under	00.690
7			00.690			
7 8						01.000
9						02.000
10						03.500
ii			03.500	and	under	05.000
12			05.000	and	under	10.000
13						15.000
14						20.000
15						25.000
16						30.000
17						35.000
18			35.000	and	under	40.000
19						45.000
20		4				50.000
21		× .	50.000	and	under	55.000
22		×	55.000	and	under	60.000
23			60.000	and	under	65.000
24			65.000	and	under	70.000
25			70.000	and	under	75.000
26			75.000	and	under	80.000
27			80.000	and	under	85.000
28						90.000
29						93.000
30			93.000	and	under	95.000
31			95.000	and	under	100.00
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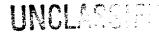




TABLE 3

SUFFIX CODES FOR SS MATERIALS

EFFECTIVE: July 30, 1958

Suffix Code	Chamical Formula	Chemical Compound Name
Number	Chemical Formula	
10	uo ₃	Uranic Oxide
11	UF ₁₄	Uranium Tetrafluoride (Received from Off Area)
12	₃ 0 ₈	Urano-Uranic Oxide
13		Ore Concentrates
17	U0 ₂	Uranous Oxide
18		Vacuum System Material (Oxides 1131-1413)
19		Fluorination Ash
20		Feed Plant Scrap
21		Barrier Tubes
22 .	$\mathtt{UF}_{\mathtt{l}_{\!+}}$	Uranium Tetrafluoride (Produced)
23 .	Ash (UX-1)	Féed Plant Ash
24	ur ₆	Uranium Hexafluoride (Feed Manufacture)
25	ur ₆	Virgin UF ₆
26	ur ₆	Uranium Hexafluoride (Cascade)
27	uf ₆	Uranium Hexafluoride (K-1420 Conversion)
28	uf ₆	Uranium Hexafluoride (Special Withdrawal) .
29		Coolant and UF6
30	U	U Metal
31	ucl	Uranium Tetrachloride
32	ucl ₃	Uranium Chloride
33	ucl ₅	Uranium Pentachloride
34	$uo_2(no_3)_2.6H_2o$	Uranyl Nitrate
35	UF ₅	Oranium Pentafluoride



Suffix Code		SIFIED
Number	Chemical Formula	Chemical Compound Name
36	UO ₂ SO ₄ .3H ₂ O	Uranyl Sulphate
37	uo ₂ (с ² н ² o ²) ⁵ ·5н ⁵ 0	Uranyl Acetate
38	uo ₂ нро ₄ . ⁴ н ₂ о	Uranyl Phosphate
39	uo ₂ nн ₄ po ₄ .3н ₂ o	Uranyl Ammonium Phosphate
40	UO ₂ F ₁₄ -H ₂ O	Uranyl Fluoride Solution
41	vo ₂ F ₂	Uranyl Fluoride
42	uo ₄	Uranyl Peroxide
43	U ₂ (P ₂ 0 ₇)	Uranous Pyro Phosphate
7 17	U202(P201)	Uranous Oxypyro Phosphate
45	(nh ₁)2u ₂ o ₇	Ammonium Diuranate
46	$Na_{4}UO_{2}(CO_{3})_{3}$	Sodium Uranyl Carbonate
47	uo ₂ c ₂ o ₄ .3H ₂ o	Uranyl Oxalate
48	uc ₂	Uranium Carbide
49	vo ₂ cr ₂	Uranyl Chloride
50		Carbon and Alumina
51		Activated Alumina
52		Carbon
53		Soda Lime and/or Salt
54		Calcium Sulphate
55		Monasite Sand
56		CLF ₃ and UF ₆
57		Counting Films
58		Hydrochloric Acid Solution (HCL)
59		Nitric Acid Solution (HNO3)
60 .		Sulphuric Acid Solution (H2SO4)
61	1	Hvdrofluoric Acid (HF)





Suffix Code			
<u>Number</u>		Chemical Formula	Chemical Compound Name
62			Miscellaneous Filter Cake
63			MFL Filter Cake
64			Laboratory Waste
65			Carbitol
66			Gunk
67			Magnesium Fluoride (Bomb Liner Material)
68			Phosphate Solution
69			Peroxide Solution
70			Iodate Solution
71		,	Carbonate Solution
72			Hydroxide Solution the distance of 1
73	¥ d	,	Uranate Solution
74	iili.		Dichromate Solution
75	e is		Trichlorethylene
76	e de la companya de		Vacuum Cleaner Material (Corrosion Products)
77	g of g		Incinerator Ash
78			Filterings
79			Undissolved Filterings
80			Aluminum Oxide
81			Miscellaneous Solvents
82			Miscellaneous Solvents and/or MFL
83			Miscellaneous Solvents and/or HC
84			Sodium Fluoride

